

(19)



(11) Publication number: 59200774 A

# PATENT ABSTRACTS OF JAPAN

(21) Application number: 58075403

(22) Application date: 28.04.83

(51) Int. Cl. C23G 3/02

(30) Priority:

(43) Date of application publication: 14.11.84

(84) Designated contracting states:

(71) Applicant: MITSUBISHI HEAVY IND LTD  
RIYOUSSEN ENG KK

(72) Inventor: UEMATSU MINATO  
FURUKAWA HEIZABURO  
FUJIWARA TOSHIO  
KANDA YUKIO

(74) Representative:

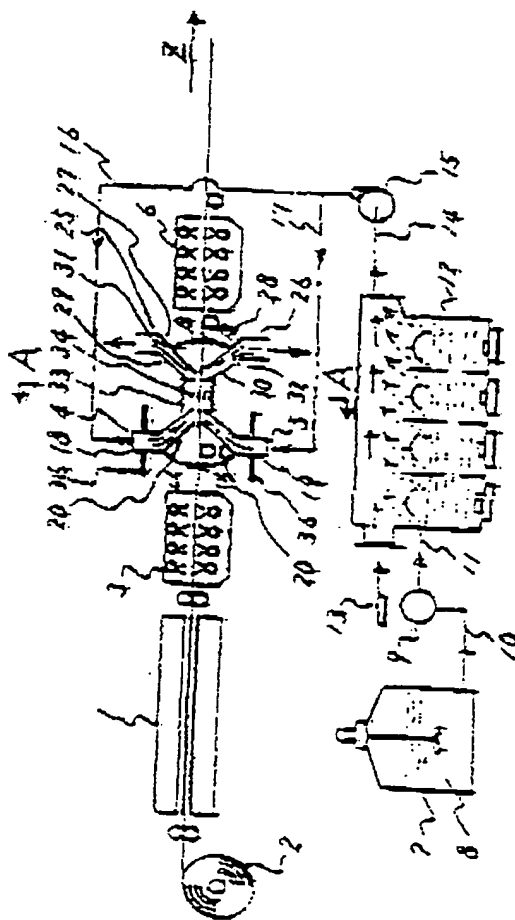
## (54) PRETREATING DEVICE FOR DESCALING OF STAINLESS STEEL

(57) Abstract:

**PURPOSE:** To improve efficiency in descaling and the quality of a stainless steel strip after a pickling treatment by ejecting acceleratively the uniform fine particles of an atomized aq. alkali soln. to the high-temp. stainless steel strip after an annealing treatment and oxidizing the same thereof by adjusting the distance for reaction.

**CONSTITUTION:** A stainless steel strip 2 of a high temp. pass an annealing furnace 1 is cooled to an adequate temp. with a cooler 3 and is thereafter transferred through alkali syphon 4, 5 and a cooler 6 to a pickling device. An aq. soln. comp. an alkali such as NaOH, KOH or the like or an alkali salt such as Na or K salt of an orthosilic acid, nitrous acid, nitric acid and hydrochloric acid in a tank 7 is supplied by a pump 9 to an atomizer 12, where the soln. is atomized by inflow air 13 to uniform and fine particles. The atomized particles are then accelerated by an accelerator 15 such as fan and are sprayed from the ejecting bodies 18, 19 of the ejectors 4, 5. The length of a reaction zone 34 formed of the freely expandable cylindrical hood 33 between the bodies 18, 19 and evacuating ducts 25, 25 is adjusted to oxidize the scale, thereby providing the easily descalable state.

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Full Title Citation Inventor Name Date of Invention Date of Publication Date of Reference Claims KINC

## Document Number 1

Entry 1 of 1

File: JPAB

Nov 14, 1984

PUB-NO: JP359200774A

DOCUMENT-IDENTIFIER: JP 59200774 A

TITLE: PRETREATING DEVICE FOR DESCALING OF STAINLESS STEEL

PUBN-DATE: November 14, 1984

## INVENTOR-INFORMATION:

NAME

GEMATSU, MINATO

FURUKAWA, HEIZABURO

FUJIWARA, TOSHIO

KANDA, YUKIO

INT-CL (IPC): C23G 3/02

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